

ULK3 (aa445-458) Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF3654a**Specification**

ULK3 (aa445-458) Antibody (C-Term) - Product Information

Application	E
Primary Accession	Q6PHR2
Other Accession	NP_001092906.1 , 25989
Reactivity	Human
Predicted	Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	53444

ULK3 (aa445-458) Antibody (C-Term) - Additional Information**Gene ID** 25989**Other Names**

Serine/threonine-protein kinase ULK3, 2.7.11.1, Unc-51-like kinase 3, ULK3

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ULK3 (aa445-458) Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

ULK3 (aa445-458) Antibody (C-Term) - Protein Information**Name** ULK3**Function**

Serine/threonine protein kinase that acts as a regulator of Sonic hedgehog (SHH) signaling and autophagy. Acts as a negative regulator of SHH signaling in the absence of SHH ligand: interacts with SUFU, thereby inactivating the protein kinase activity and preventing phosphorylation of GLI proteins (GLI1, GLI2 and/or GLI3). Positively regulates SHH signaling in the presence of SHH:

dissociates from SUFU, autophosphorylates and mediates phosphorylation of GLI2, activating it and promoting its nuclear translocation. Phosphorylates in vitro GLI2, as well as GLI1 and GLI3, although less efficiently. Also acts as a regulator of autophagy: following cellular senescence, able to induce autophagy.

Cellular Location

Cytoplasm. Note=Localizes to pre-autophagosomal structure during cellular senescence

Tissue Location

Widely expressed. Highest levels observed in fetal brain. In adult tissues, high levels in brain, liver and kidney, moderate levels in testis and adrenal gland and low levels in heart, lung, stomach, thymus, prostate and placenta. In the brain, highest expression in the hippocampus, high levels also detected in the cerebellum, olfactory bulb and optic nerve. In the central nervous system, lowest levels in the spinal cord

ULK3 (aa445-458) Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ULK3 (aa445-458) Antibody (C-Term) - Images



AF3654a (1 µg/ml) staining of Human Hippocampus lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

ULK3 (aa445-458) Antibody (C-Term) - References

Dual function of UNC-51-like kinase 3 (Ulk3) in the Sonic hedgehog signaling pathway. Maloverjan A, Piirsoo M, Kasak L, Peil L, Østerlund T, Kogerman P. J Biol Chem. 2010 Sep 24;285(39):30079-90.

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